

ABSTRACT

The inventive filter unit for filtering particles contained in exhaust gas of an internal combusting engine comprises sets of imbricated input channels (10, 11) and adjacent output channels (12, 13) which are fluidly communicating by means of the lateral walls thereof. Said lateral walls are cross-sectionally provided with a corrugation which is determined in such a way that the total volume of the input channels (10, 11) is increased with respect to that of the output channels (12, 13), whereby the total volume (V_e) of the input channels (10, 11) being greater than that (V_s) of the output channels (12, 13).